

AMENDMENTS TO THE CLAIMS

In the claims:

1. (currently amended) A device for locking an electrical device with a battery pack by thrusting the battery pack into the electrical device toward a final locking, the device comprising:

a locking bar (38; 40; 42) being movable and disposed in one of the electrical device and the battery pack; and

at least two recesses being received in the other of the electrical device and the battery pack, the at least two recesses comprising a front recess (24) and a rear recess (26),

wherein the locking bar and the two recesses are configured in one of a first set, a second set, and a third set, in the first set the locking bar (38) engaging successively the front recess (24) and the rear recess (26) during the thrusting, in the second set the locking bar (40) engaging only the front recess (24) during the thrusting, in the third set the locking bar (42) engaging only the rear recess (26) during the thrusting. ~~electrical devices, in particular power tools, with battery packs for power supply, in which the electrical devices have one movable locking bar and the battery packs have at least two recesses, or vice versa, and upon locking, the recesses are located one after the other in the direction of a relative motion between the electrical device and the battery pack, and after locking, the locking bar engages one of the recesses, characterized in~~

~~that the recesses (24, 26) are differently shaped or of different dimensions or are offset transversely to the direction of motion; and that in different combinations of electrical devices (2) and battery packs (4), the shape, dimensions and/or offset of the recesses (24, 26) are each adapted to the shape, dimensions or position of the locking bar (14; 36; 38; 40; 42) in such a way that the locking bar (14; 36; 38; 40; 42) engages either only the front recess (24) or only the rear recess (26) or successively the front recess and then the rear recess (24, 26, respectively).~~

2. (original) The device as defined by claim 1, characterized in that in a combination of an electrical device (2) and battery pack (4), the contact between batteries of the battery pack (4) and a current circuit of a consumer of the electrical device (2) is made upon engagement of the locking bar (42) with the rear recess (25) and in a different combination of an electrical device (2) and battery pack (4) is made upon engagement of the locking bar (40) with the front recess (24).

3. (currently amended) The device as defined by claim 1 or 2, characterized in that protruding into one of the recesses (24) is a protrusion (32), which permits the engagement of a locking bar (14; 38; 40) with a cutout (30) that receives the protrusion (32) and prevents the engagement of a locking bar (36; 42) without such a cutout (30).

4. (currently amended) The device as defined by claim 3, characterized in that the ~~[[bp]]~~ protrusion is a rib (32) in the recess (24), and the cutout is a slot (30) in the locking bar (14; 38; 40).

5. (currently amended) The device as defined by claim 1 ~~one of the foregoing~~ ~~claims~~, characterized in that the recesses (24, 26, Fig. 5) are differently shaped and of different dimensions.

6. (currently amended) The device as defined by claim 1 ~~one of the foregoing~~ ~~claims~~, characterized in that the recesses are differently shaped and are offset traversely to the direction. ~~from one another.~~

7. (currently amended) The device as defined by claim 1 ~~one of the foregoing~~ ~~claims~~, characterized in that the recesses are of different dimensions and are offset traversely to the direction. ~~from one another.~~

8. (currently amended) The device as defined by claim 1 ~~one of the foregoing~~ ~~claims~~, characterized in that the locking bar~~[[s]]~~ (14; 36; 38; 40; 42) ~~[[are]]~~ is located in the electrical device~~[[s]]~~ (2), and the recesses (24, 26) are located in the battery pack~~[[s]]~~ (4).

9. (currently amended)     A battery pack for locking to an electrical device by thrusting the battery pack into the electrical device toward a final locking, comprising:

a locking bar (38; 40; 42) being movable and disposed in one of the electrical device and the battery pack; and

at least two recesses being received in the other of the electrical device and the battery pack, the at least two recesses comprising a front recess (24) and a rear recess (26),

wherein the locking bar and the two recesses are configured in one of a first set, a second set, and a third set, in the first set the locking bar (38) engaging successively the front recess (24) and the rear recess (26) during the thrusting, in the second set the locking bar (40) engaging only the front recess (24) during the thrusting, in the third set the locking bar (42) engaging only the rear recess (26) during the thrusting, and

wherein in particular a power tool, which includes a movable locking bar, and the battery pack has at least two recesses that upon locking are located one after the other in the relative motion between the electrical device and the battery pack, characterized in that the recesses (24, 26) are differently shaped or of different dimensions or are offset from one another transversely to [[the]] a direction of the thrusting. ~~motion.~~

10. (currently amended) ~~An electrical device, in particular a power tool, for locking with a battery pack by thrusting the battery pack into the electrical device toward a final locking, comprising:~~

a locking bar (38; 40; 42) being movable and disposed in one of the electrical device and the battery pack; and

at least two recesses being received in the other of the electrical device and the battery pack, the at least two recesses comprising a front recess (24) and a rear recess (26),

wherein the locking bar and the two recesses are configured in one of a first set, a second set, and a third set, in the first set the locking bar (38) engaging successively the front recess (24) and the rear recess (26) during the thrusting, in the second set the locking bar (40) engaging only the front recess (24) during the thrusting, in the third set the locking bar (42) engaging only the rear recess (26) during the thrusting, and

wherein ~~which includes a movable locking bar, and the electrical device has at least two recesses that upon locking are located one after the other in the relative motion between the electrical device and the battery pack, characterized in that the recesses (24, 26) are differently shaped or of different dimensions or are offset from one another transversely to [[the]] a direction of the thrusting.~~  
~~motion.~~

11. (new) A battery pack for locking with an electrical device with at least one movable locking bar, said battery pack comprising at least two recesses which are located one after the other in the direction of a relative motion between the battery pack and the electrical device upon locking, said recesses being configured as detent grooves which are offset transversely to the direction of motion.

12. (new) A battery pack for locking with an electrical device with at least one movable locking bar, said battery pack comprising at least a front recess and a rear recess located one after the front recess in the direction of a relative motion between the battery pack and the electrical device upon locking, said recesses being configured as detent grooves; and further comprising a protrusion which protrudes into one of said recesses such that said recess with said protrusion permits the engagement of a locking bar with a cutout that receives said protrusion and prevents the engagement of a locking bar without such cutout.

13. (new) The battery pack as defined in claim 12, wherein said protrusion is a rib.

14. (new) The battery pack as defined in claim 12, wherein upon locking, the at least one movable locking bar engages only the front recess.

15. (new) The battery pack as defined in claim 12, wherein upon locking, the at least one movable locking bar engages only the rear recess.

16. (new) The battery pack as defined in claim 12, wherein upon locking, the at least one movable locking bar engages successively the front recess and then the rear recess.

17. (new) The battery pack as defined in claim 12, wherein upon locking, an electrical contact between batteries of the battery pack and a current circuit of a consumer of the electrical device is made upon engagement of the at least one locking bar with the front recess.

18. (new) The battery pack as defined in claim 12, wherein upon locking, an electrical contact between batteries of the battery pack and a current circuit of a consumer of the electrical device is made upon engagement of the at least one locking bar with the rear recess.

19 (new) An electrical device for locking with a battery pack with at least one movable locking bar, said electrical device comprising at least two recesses which are located one after the other in a direction of a relative motion between the battery pack and the electric device upon locking, said recesses being configured as detent grooves which are offset transversely to the direction.

20 (new) An electrical device for locking with a battery pack with at least one movable locking bar, said electrical device comprising:

at least two recesses having a front recess and a rear recess located after the front recess in a direction of a relative motion between the battery pack and the electric device upon locking, said recesses being configured as detent grooves; and

a protrusion which protrudes into one of said recesses such that said recess with said protrusion permits the engagement of a locking bar with a cutout that receives said protrusion and prevents the engagement of a locking bar without such cutout.

21. (new) The electrical device as defined in claim 20, wherein said protrusion is a rib.

22. (new) The electrical device as defined in claim 20, wherein upon locking, a locking bar of the battery pack engages only the front recess.

23. (new) The electrical device as defined in claim 20, wherein upon locking, a locking bar of the battery pack engages only the rear recess.



24. (new) The electrical device as defined in claim 20, wherein upon locking, a locking bar of the battery pack engages successively the front recess and then the rear recess.

25. (new) The battery pack as defined in claim 20, wherein upon locking, an electrical contact between batteries of the battery pack and a current circuit of a consumer of the electrical device is made upon engagement of a locking bar of the battery pack with the front recess.

26. (new) The battery pack as defined in claim 20, wherein upon locking, an electrical contact between batteries of the battery pack and a current circuit of a consumer of the electrical device is made upon engagement of a locking bar of the battery pack with the rear recess.